

JEAP Robot specification

Ryuzou Nakata^{*1}, Keita Ogawa^{*1}, Hiroki Komatsu^{*1},
 Junji Suzuki^{*1}, Akiko Nakatani^{*1}, Naoto Nishijima^{*1}, Toshiyuki Homma^{*1},
 Masaki Ogino^{*1}, and Minoru Asada^{*1,2}

^{*1} Adaptive Machine Systems, Graduate School of Engineering

^{*2} JST ERATO Asada Project Synergistic Intelligence

Osaka University, Osaka, Japan

robocup@er.ams.eng.osaka-u.ac.jp

1 Specifications

The team JEAP utilizes a number of commercially available humanoid platform VisiON 4G with customized parts. Its link structure and a front view are shown in Fig. 1, and the detailed specification is shown in Table 1.

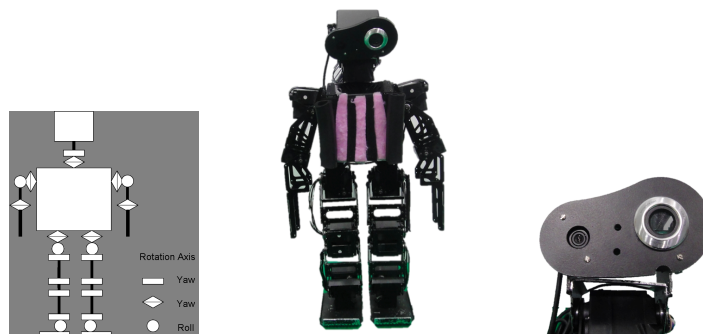


Fig. 1. The VisiON 4G robot

Table 1. VisiON 4G hardware specifications

VisiON 4G			
Height (mm)	465		
Weight (kg)	3.2		
Walking speed (m/min)	5		
DOF	22		
Motor Type	VStone Servo		
Computing units	Controller	Main Controller	Sub controller
	CPU	PNM-SG3	VS-RC003 ARM
	ROM	16GB (Flash HDD)	512 KB
	RAM	512 MB	40 MB
	OS	Linux	None
Camera Type	Logicool Webcam Pro 9000		
Other sensors	2-axis gyro sensor	3-axis acceleration sensor	